IFO2175-850-FL Series

17” Fanless Touch Panel Computer

User’s Manual

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Safety Approvals

- CE Marking
- FCC Class A

FCC Compliance

This equipment has been tested in compliance with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are meant to provide reasonable protection against harmful interference in a residential installation. If not installed and used in accordance with proper instructions, this equipment might generate or radiate radio frequency energy and cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to another outlet of a circuit that doesn't connect with the receiver.
4. Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with the emission limits.

Safety Precautions

Before getting started, read the following important safety precautions.

1. The **IFO2175-850-FL Series** does not come equipped with an operating system. An operating system must be loaded first before installing any software into the computer.
2. Be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and place all electronic components in any static-shielded devices. Most electronic components are sensitive to static electrical charge.
3. Disconnect the power cord from the **IFO2175-850-FL Series** before any installation. Be sure both the system and external devices are turned OFF. A sudden surge of power could ruin sensitive components that the **IFO2175-850-FL Series** must be properly grounded.
4. Make sure it is the correct voltage of the power source before connecting the equipment to the power outlet.
5. The brightness of the flat panel display will be getting weaker as a result of frequent usage. However, the operating period varies depending on the application environment.
6. Turn OFF the system power before cleaning. Clean the system using a cloth only. Do not spray any liquid cleaner directly onto the screen. The **IFO2175-850-FL Series** may come with or w/o a touchscreen. Although the touchscreen is chemical resistant, it is recommended that you spray the liquid cleaner on a cloth first before wiping the screen. In case your system comes without the touchscreen, you must follow the same procedure and not spray any cleaner on the flat panel directly.
7. Avoid using sharp objects to operate the touchscreen. Scratches on the touchscreen may cause malfunction or internal failure to the touchscreen.
8. The flat panel display is not susceptible to shock or vibration. When assembling the **IFO2175-850-FL Series**, make sure it is securely installed.
9. Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20℃ or above 60℃. It may damage the equipment.
10. External equipment intended for connection to signal

input/out or other connectors, shall comply with relevant UL/IEC standard.

11. Do not open the system's back cover. If opening the cover for maintenance is a must, only a trained technician is allowed to do so. Integrated circuits on computer boards are sensitive to static electricity. To avoid damaging chips from electrostatic discharge, observe the following precautions:
    - Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
    - When handling boards and components, wear a wrist-grounding strap, available from most electronic component stores.

Classification

1. Degree of production against electric shock: not classified
2. Degree of protection against the ingress of water: IPX1
3. Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
4. Mode of operation: Continuous
5. Type of protection against electric shock: Class I equipment

General Cleaning Tips

You may need the following precautions before you begin to clean the computer. When you clean any single part or component for the computer, please read and understand the details below fully.

1. When you need to clean the device, please rub it with a piece of dry cloth.
2. Be cautious of the tiny removable components when you use a vacuum cleaner to absorb the dirt on the floor.
3. Turn the system off before you start to clean up the component or computer.
4. Never drop the components inside the computer or get circuit board damp or wet.
5. Be cautious of all kinds of cleaning solvents or chemicals when you use it for the sake of cleaning. Some individuals may be allergic to the ingredients.
6. Try not to put any food, drink or cigarette around the computer.

Cleaning Tools:

Although many companies have created products to help improve the process of cleaning your computer and peripherals users can also use household items to clean their computers and peripherals. Below is a listing of items you may need or want to use while cleaning your computer or computer peripherals.

Keep in mind that some components in your computer may only be able to be cleaned using a product designed for cleaning that component, if this is the case it will be mentioned in the cleaning.

- Cloth: A piece of cloth is the best tool to use when rubbing up a component. Although paper towels or tissues can be used on most hardware as well, we still recommend you to rub it with a piece of cloth.
- Water or rubbing alcohol: You may moisten a piece of cloth a bit with some water or rubbing alcohol and rub it on the computer. Unknown solvents may be harmful to the plastics parts.
- Vacuum cleaner: Absorb the dust, dirt, hair, cigarette particles, and other particles out of a computer can be one of the best methods of cleaning a computer. Over time these items can restrict the airflow in a computer and cause circuitry to corrode.

- Cotton swabs: Cotton swaps moistened with rubbing alcohol or water are excellent tools for wiping hard to reach areas in your keyboard, mouse, and other locations.
- Foam swabs: Whenever possible it is better to use lint free swabs such as foam swabs.

Note *We strongly recommended that you should shut down the system before you start to clean any single components.*

Please follow the steps below:

1. Close all application programs
2. Close operating software
3. Turn off power switch
4. Remove all device
5. Pull out power cable

Scrap Computer Recycling

If the computer equipments need the maintenance or are beyond repair, we strongly recommended that you should inform us as soon as possible for the suitable solution. For the computers that are no longer useful or no longer work well, please contact us for recycling and we will make the proper arrangement.

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CHAPTER 1
INTRODUCTION

This chapter contains general information and detailed specifications of the **IFO2175-850-FL Series**. Chapter 1 includes the following sections:

- **General Description**
- **Features**
- **System Specification**
- **Dimensions**
- **I/O Outlets**
- **Package List**

1.1 General Description

The IFO2175-850-FL is an ultra slim panel computer equipped with 17-inch 380 nits high brightness SXGA LCD display and supports superior Socket P Intel® Core™ 2 Duo/Celeron® M processor. Powered by Intel® GM/GL45 +ICH9M core logic chipset with maximum 256 MB sharing graphic memory, this panel computer has better graphic performance. The panel also supports Dual View and multiple I/O options including 2 USB 2.0, 3 RS-232 ports. This optional 1.3 mega pixels camera and microphone/speakers can provide the compact solution for VoIP, remote monitoring. Furthermore, the IFO2175-850-FL supports antenna for wireless (802.11 b/g) expansion. Besides, the dual Gigabit Ethernet ports can provide the extremely high speed of Ethernet and high reliable redundancy host connection. The IFO2175-850-FL is designed to work with low noise, low power consumption, high reliability and high performance applications. Besides, excellent ID (industrial design) and user friendly interface design make the IFO2175-850-FL perfect

with super slim, professional outlook, better user interface, and excellent protection at once! This safe, reliable & user-friendly panel computer can ensure customer's project success and best suited for PIO/POS/kiosk, media content display, and HMI solutions.

1.2 Features

- **17" high brightness (380nits) SXGA TFT LCD**
- **Socket P for Intel® Core™ 2 Duo/ Celeron® M processor with FSB 667/800/1066 MHz**
- **NEMA 4/12 (IP65) - compliant front bezel**
- **IPX1 for whole enclosure**
- **Fanless and noiseless operation**
- **Option 1.3 mega pixels camera**
- **Optional wireless (802.11 b/g) antenna**

1.3 System Specifications

FRONT BEZEL	PLASTIC ABS	
LCD PANEL	DISPLAY TYPE	17" SXGA TFT
	BRIGHTNESS (cd/m²)	380 nits
	RESOLUTION	1280 x 1024
	VIEWING ANGLE (H/V)	160º/160º

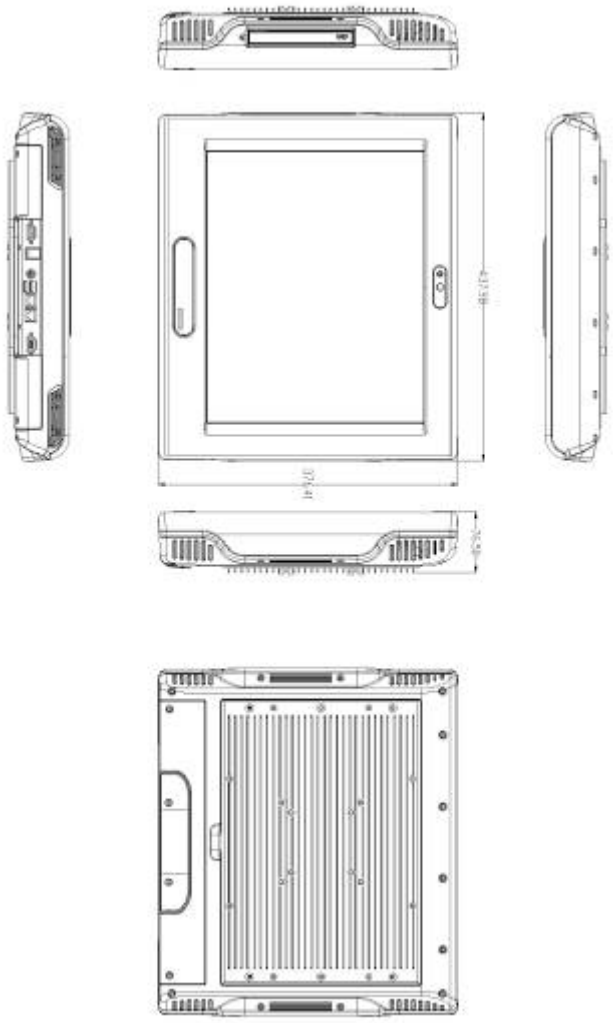
MAIN SYSTEM	CPU	SOCKET P FOR INTEL® CORE™ 2 DUO/ CELERON® M PROCESSOR WITH FSB 667/800/1066 MHz
	CHIPSET	INTEL® GM/GL45+ICH9M
	SYSTEM MEMORY	SUPPORTS 1 DDR3 SODIMM MEMORY UP TO 4GB
	STORAGE	1 x 2.5" SATA HDD DRIVE BAY
	OPTICAL DRIVE	OPTIONAL 1 COMPACT CD-ROM OR COMBO DRIVE
I/O CONNECTORS	2 x RS-232 (COM 1/2)	
	1 x RS-232 (COM 3)	
	2 x USB 2.0	
	1 x PS/2 MOUSE AND KEYBOARD	
	1 x AUDIO (MIC-IN/LINE-OUT)	
	1 x VGA	
	2 x 10/100/1000Mbps ETHERNET	
	1 x 12V DC-IN POWER CONNECTOR	
CAMERA	1 x 1.3 MEGA PIXELS CAMERA	
TOUCHSCREEN	RESISTIVE TYPE	
	LIGHT TRANSMISSION: 80%	
	TOUCH LIFETIME: 35 MILLION TOUCHES	
POWER SUPPLY	12VDC, w/ AC-DC ADAPTOR	
DIMENSIONS	437.98mm (17.24") (W) x 76.5mm (3.01") (D) x 376.41mm (14.81") (H)	
WEIGHT	7.65kg (16.85 lb)	

ENVIRONMENTAL	OPERATION TEMPERATURE: 0ºC~40ºC (32ºF~104ºF)
	RELATIVE HUMIDITY: 10%~95%, NON-CONDESING
	SHOCK: 10G PEAK ACCELERATION (11 SEC. DURATION)
CERTIFICATION	CE

NOTE *All specifications and images are subject to change without notice.*

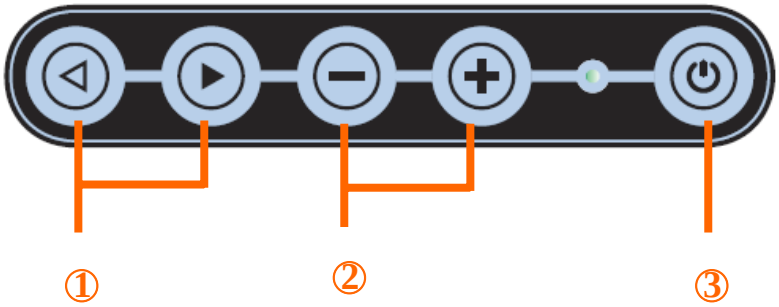
1.4 Dimensions

The following diagrams show you dimensions and outlines of the **IFO2175-850-FL Series**.

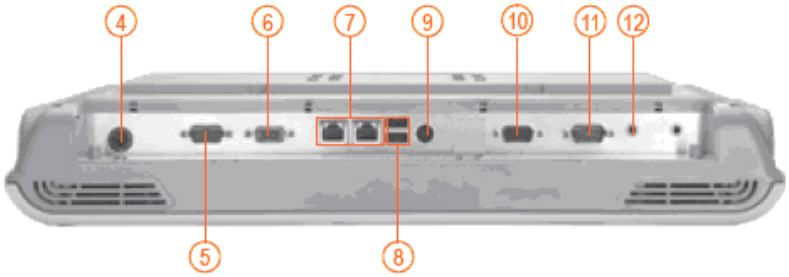


1.5 I/O Outlets

The following figures show you the locations of the **IFO2175-850-FL Series** I/O outlets.



- **I/O Outlets**



NO	CONNECTOR
1	BRIGHTNESS ADJUST BUTTONS
2	VOLUME ADJUST BUTTONS
3	POWER SWITCH
4	DC-IN POWER CONNECTOR
5	COM 1 (RS-232)
6	VGA
7	ETHERNET x 2
8	USB 2.0 x 2
9	PS/2 K/B + M/S
10	COM 3 (RS-232) (OPTIONAL)
11	COM 2 (RS-232)
12	AUDIO (MIC-IN/LINE-OUT)

1.6 Packing List

The package bundled with your **IFO2175-850-FL Series** should contain the following items:

- IFO2175-850-FL Series Unit x 1
- 12V AC-DC Power Adaptor
- Power Cord x 1
- CD x 1 (For Driver and User's Manual)
- Quick Manual x 1
- DVD-combo Cover x 2 (For within DVD-combo) (Option)
- SATA cable x 1
- Cable Management Kit x 2
- Fuse x 1
- Wall-Mount Bracket x 1
- M4 x 8 Screws x 4 (for VESA Mounting)
- M3 x 5 Screws x 2 (for Cable Management Kit)

If you can not find this package or any items are missing, please contact AXIOMTEK distributors immediately.

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CHAPTER 2
HARDWARE INSTALLATION

The **IFO2175-850-FL Series** are convenient for your various hardware configurations, such as CPU (Central Processing Unit) and HDD (Hard Disk Drive). The chapter 2 will show you how to install the hardware. It includes:

2.1 Installing the Processor

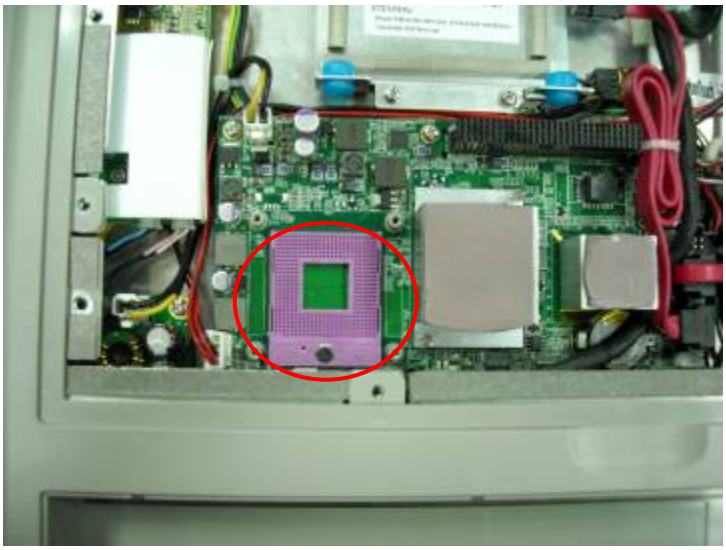
The **IFO2175-850-FL Series** supports Socket P for Intel® Core™ 2 Duo or Celeron® M processors. Please carefully follow up these steps below to install the CPU:

Step 1 Turn off the system, and unplug the AC power-cord.

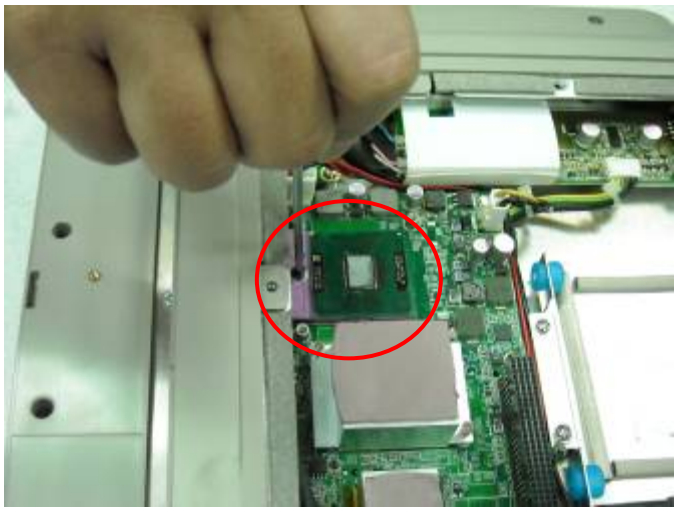
Step 2 Locate and release these screws to open the back cover.

Step 3 Please open the back cover by lifting the joint part as marked.

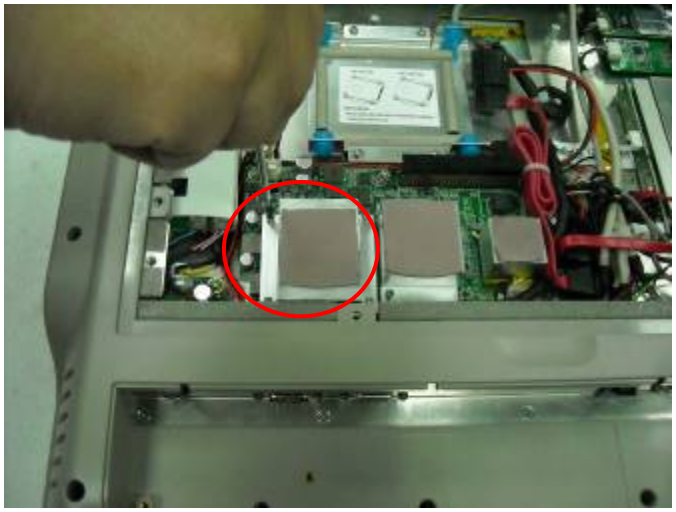
Step 4 Locate the CPU socket. Before installing your CPU, please check and confirm all jumpers are correctly set. Locate the socket on the board.



Step 5 Align pins of the CPU with pin holes of the socket. Be careful of the CPU's orientation that you need to align the arrow mark on the CPU with the arrow key on the socket. Place the CPU into the socket, and use a screwdriver to lock it onto the socket.



Step 6 Place the CPU heatsink on the top of installed CPU, and screw it tight.



Step 7 Close the back cover to the chassis, and fasten all screws.

2.2 Installing the the Hard Disk Drive

The **IFO2175-850-FL Series** offers a convenient drive bay module for users to install HDD. The system offers users one 2.5" Hard Disk Drive for installation. Please follow the steps:

Step 1 Turn off the system, and unplug the AC power-cord.

Step 2 Locate and release these screws to open the back cover.

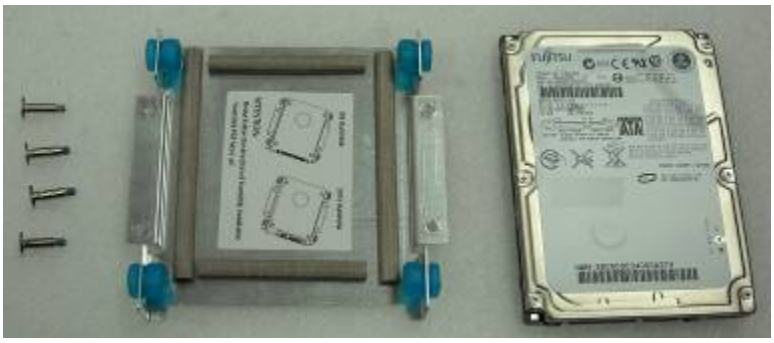
Step 3 Please open the back cover by lifting the joint part as marked.

Step 4 Locate the HDD socket as marked.

Step 5 Use assembly parts to fix HDD with the bracket.

1. HDD Bracket x1
2. 2.5 inch Hard-disk
3. Screw x 4
4. Assembly the HDD with the bracket.

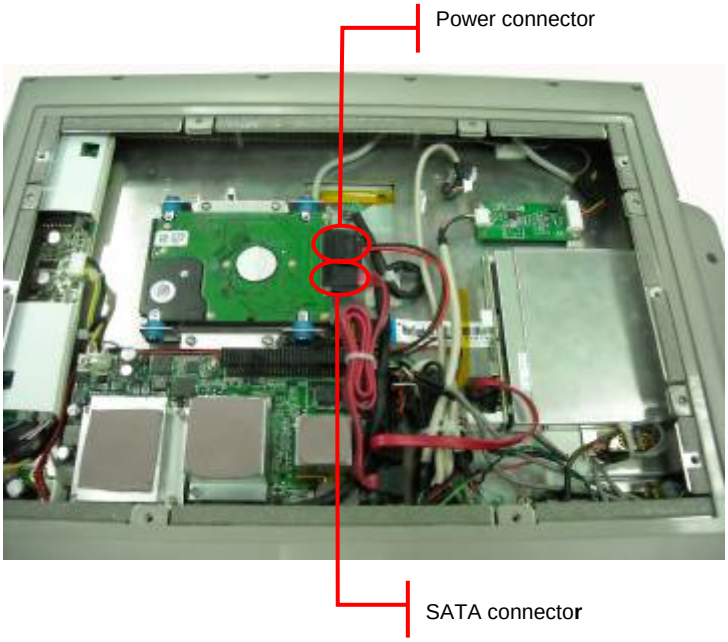
ATTENTION *Please follow the direction of Hard-disk installation. "Hard-disk PCB facesup".*



❸ ❷ ❶

❹

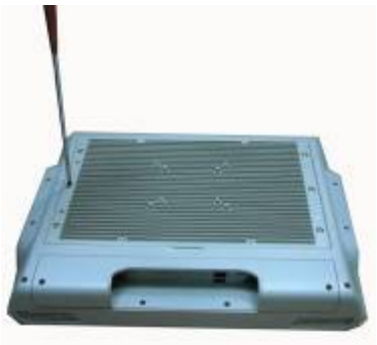
Step 6 Install the HDD bracket inside the system. Plug the SATA and Power cables in HDD.



Step 7 Close the back cover to the chassis, and fasten all screws.

2.3 Mountings – Wallmount/VESA

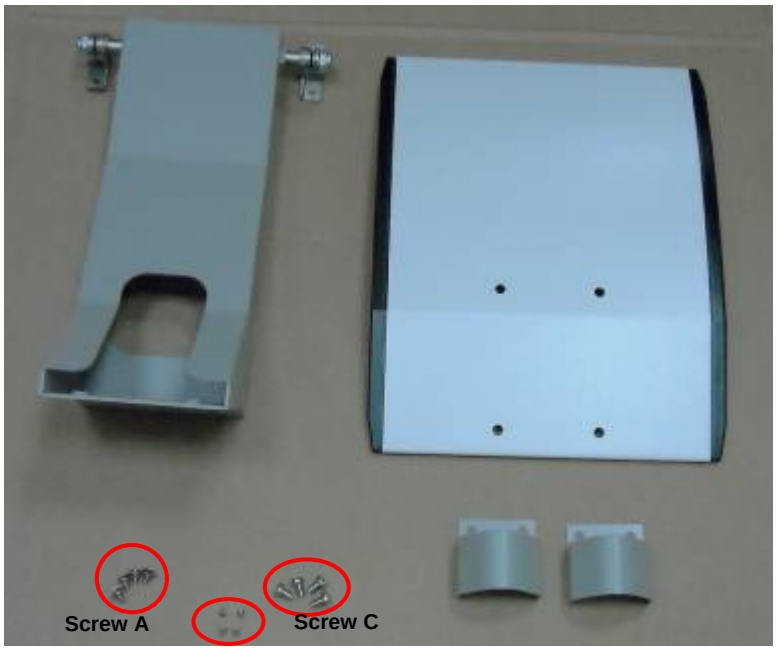
The mountings for **IFO2175-850-FL Series** are Wallmount and VESA-Arm as below:



2.4 Installing Desktop Stand (Optional)

The **IFO2175-850-FL Series** provides you with an optional Desktop Stand that you can follow the steps below:

Step 1 Prepare all parts for installing the desktop stand. Assemble the desktop stand by using screws to fix the backplane.



Step 2 Assemble the desktop stand by fixing it onto the system.

Step 3 Fix the desktop stand fimly.

Rear View

Front View

2.5 Installing Wireless Module (Optional)

You can follow the steps below to install an optional wireless module.

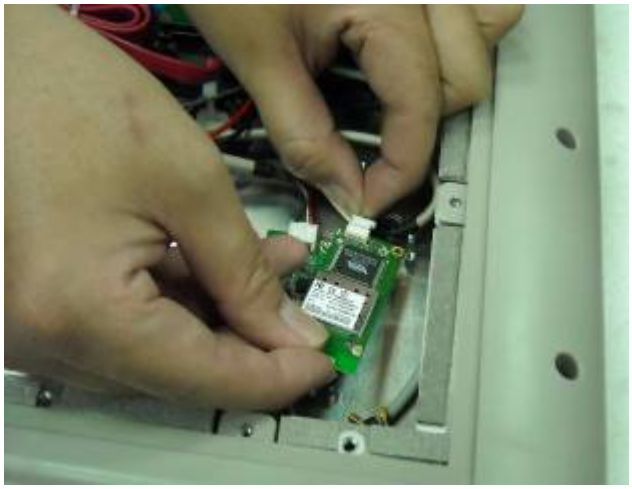
Step 1 Turn off the system, and unplug the AC power-cord.

Step 2 Locate and release these screws to open the back cover.

Step 3 Please open the back cover by lifting the joint part as marked.

Step 4 Prepare all parts for installing the wireless module and antenna.

Step 5 Install the wireless module as figures below: ❶ ~ ❸.

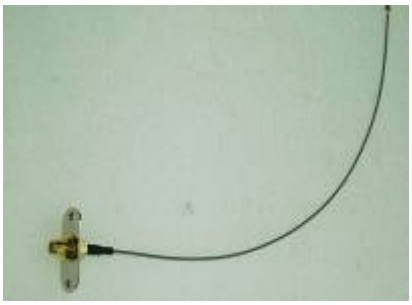


❶

❷

❸

Step 6 Assemble the antenna and connect it through COM 3 port. Follow the figures ❶ ~ ❸ to connect the antenna.



❶

❷

Step 7 Connect the antenna.

❸

Step 8 Close the back cover to the chassis, and fasten all screws.

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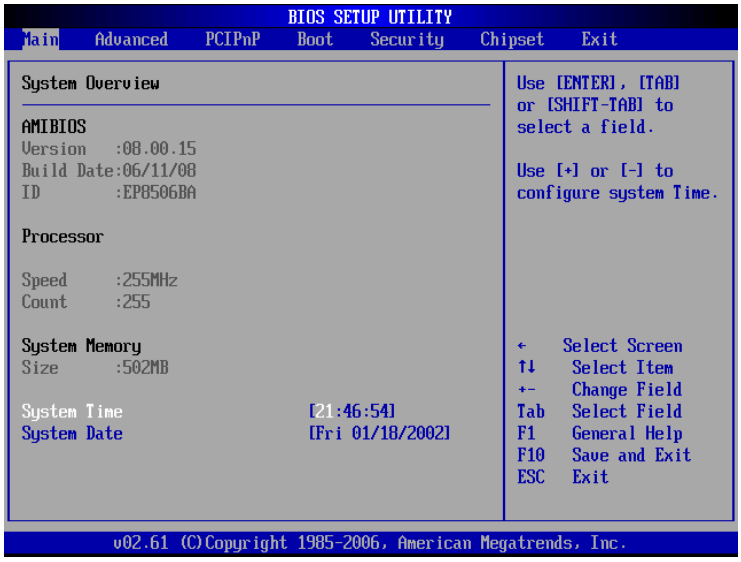
CHAPTER 3
AMI BIOS SETUP UTILITY

This chapter provides users with detailed description how to set up basic system configuration through the AMI BIOS setup utility.

3.1 Starting

To enter the setup screens, follow the steps below:

1. Turn on the computer and press the <Del> key immediately.
2. After you press the <Delete> key, the main BIOS setup menu displays. You can access the other setup screens from the main BIOS setup menu, such as the Chipset and Power menus.



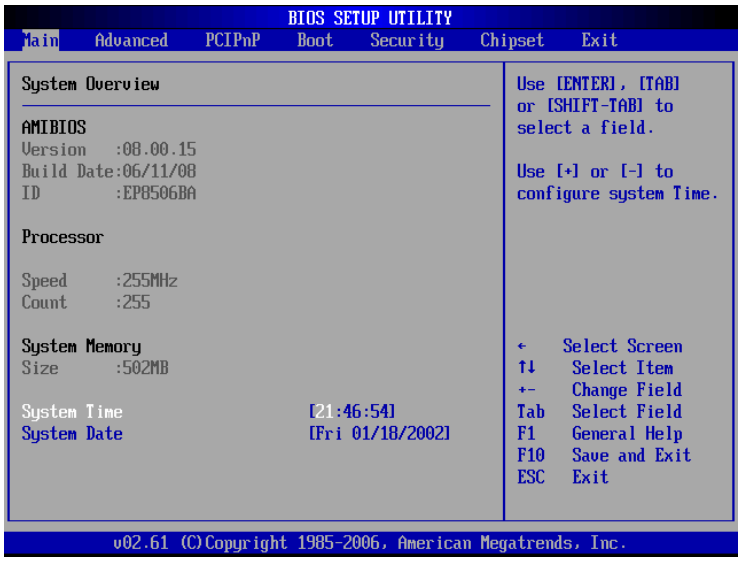
3.2 Navigation Keys

The BIOS setup/utility uses a key-based navigation system called hot keys. Most of the BIOS setup utility hot keys can be used at any time during the setup navigation process.
These keys include <F1>, <F10>, <Enter>, <ESC>, <Arrow> keys, and so on.

Note *Some of navigation keys differ from one screen to another.*

3.3 Main Menu

When you first enter the Setup Utility, you will enter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section. The Main BIOS Setup screen is shown below.



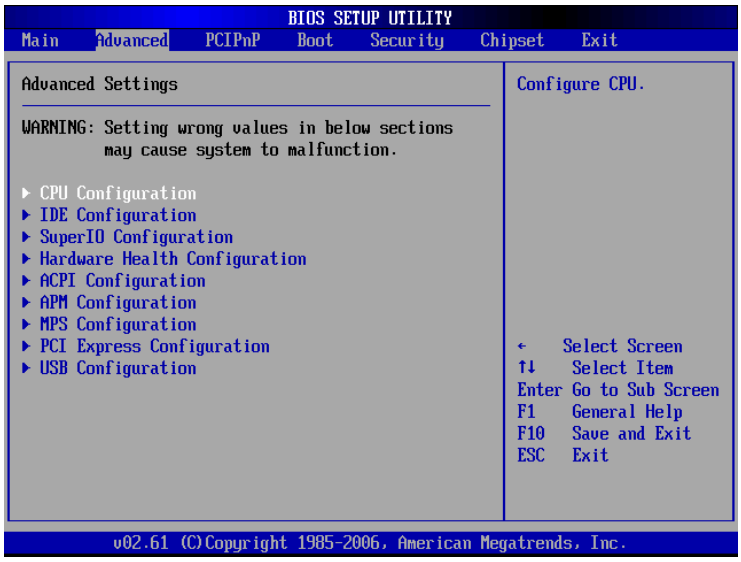
- **System Time/Date**
  Use this option to change the system time and date. Highlight *System Time* or *System Date* using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time is entered in HH:MM:SS format.

3.4 Advanced Menu

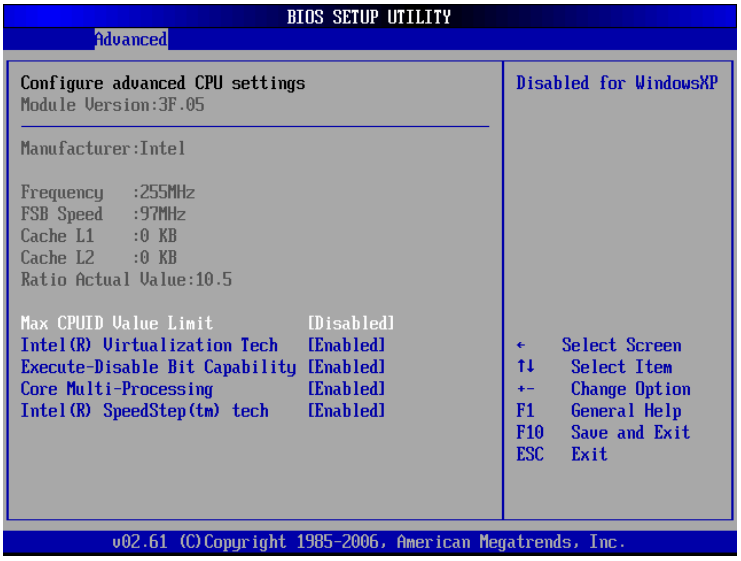
The Advanced menu allows users to set configuration of the CPU and other system devices. You can select any of the items in the left frame of the screen to go to the sub menus:

- CPU Configuration
- IDE Configuration
- SuperIO Configuration
- Hardware Health Configuration
- ACPI Configuration
- APM Configuration
- MPS Configuration
- PCI Express Configuration
- USB Configuration

For items marked with "►", please press <Enter> for more options.

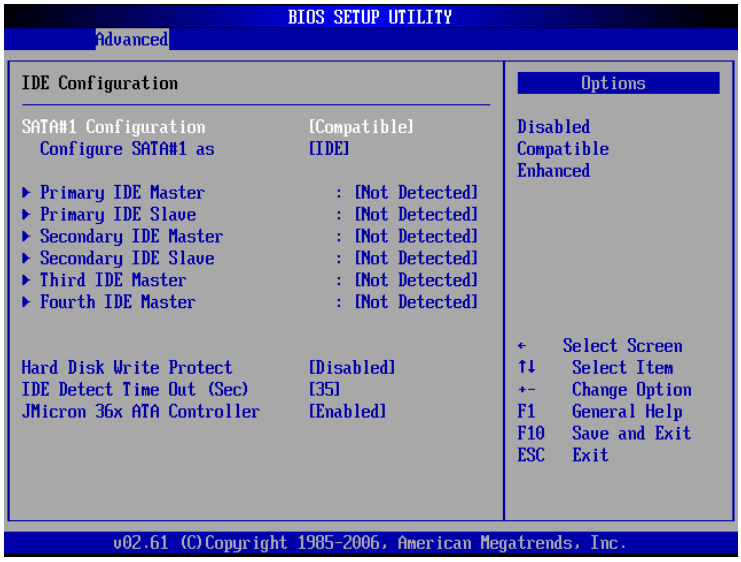


- **CPU Configuration**
  This screen shows the CPU Configuration, and you can change the value of the selected option.



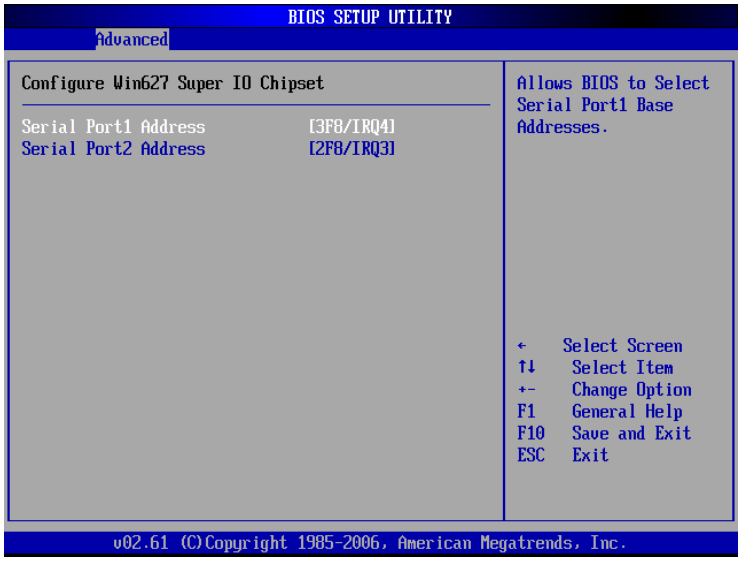
  - **Max CPUID Value Limit**
    You can enable this item to let legacy operating systems boot even without support for CPUs with extended CPU ID functions.
  - **Excute-Disable Bit Capability**
    This item helps you enable or disable the No-Execution Page Protection Technology.
  - **Intel (R) SpeedStep (tm) tech**
    This item helps you enable or disable the Intel SpeedStep Technology.

- **IDE Configuration**
  You can use this screen to select options for the IDE Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen. For items marked with "▶", please press <Enter> for more options.


BIOS SETUP UTILITY
Advanced
IDE Configuration
SATA#1 Configuration [Compatible]
Configure SATA#1 as [IDE]
▶ Primary IDE Master : [Not Detected]
▶ Primary IDE Slave : [Not Detected]
▶ Secondary IDE Master : [Not Detected]
▶ Secondary IDE Slave : [Not Detected]
▶ Third IDE Master : [Not Detected]
▶ Fourth IDE Master : [Not Detected]
Hard Disk Write Protect [Disabled]
IDE Detect Time Out (Sec) [35]
JMicron 36x ATA Controller [Enabled]
Options
Disabled
Compatible
Enhanced
← Select Screen
↑↓ Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
v02.61 (C)Copyright 1985-2006, American Megatrends, Inc.

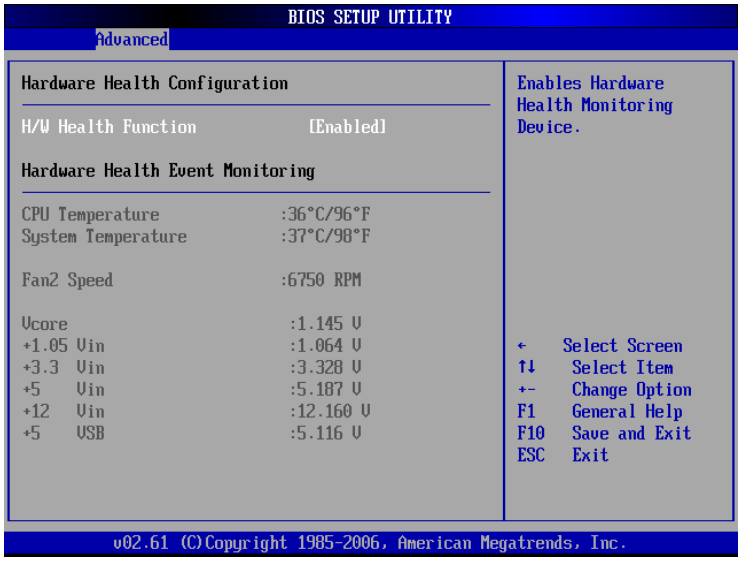
  - **Primary/Secondary/Third IDE Master/Slave**
    Select one of the hard disk drives to configure IDE devices installed in the system by pressing <Enter> for more options.
  - **Hard Disk Write Protect**
    Set this option to protect the hard disk drive from being overwritten. The default setting is *Disabled*.
  - **IDE Detect Time Out (Sec)**
    Set this option to stop the AMIBIOS from searching for IDE devices within the specified number of seconds. Basically, this allows you to fine-tune the settings to allow for faster boot times. Adjust this setting until a suitable timing that can detect all IDE disk drives attached is found.

- **SuperIO Configuration**
  You can use this screen to select options for the SuperIO Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.



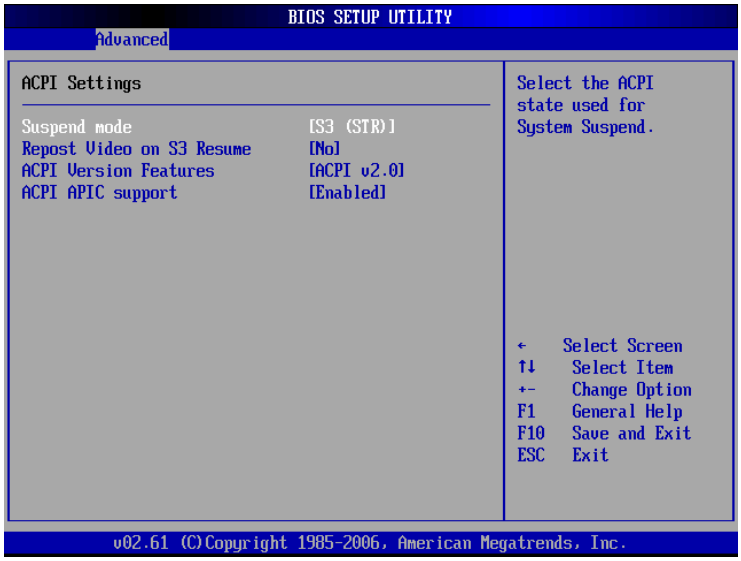
  - **Serial Port1 Address**
    This option specifies the base I/O port address and Interrupt Request address of serial port 1. The Optimal setting is *3F8/IRQ4*. The Fail-Safe default setting is *Disabled*.
  - **Serial Port2 Address**
    This option specifies the base I/O port address and Interrupt Request address of serial port 2. The Optimal setting is *2F8/IRQ3*. The Fail-Safe setting is *Disabled*.

- **Hardware Health Configuration**
  This screen shows the Hardware Health Configuration, and a description of the selected item appears on the right side of the screen.



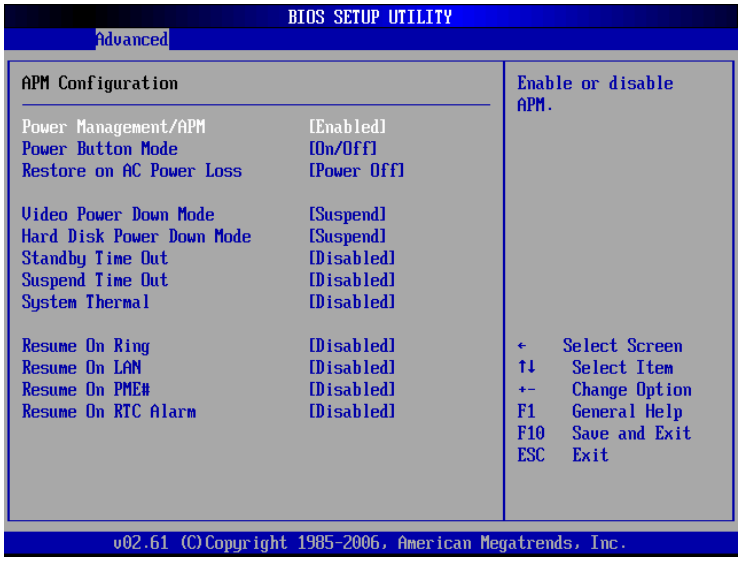
  - **H/W Health Function**
    You can select this item *Enabled* for the Hardware Health Monitoring Device. The Hardware Health Event Monitoring displays the temperature of CPU and System, Fan Speed, Vcore, etc.

- **ACPI Configuration**
  You can use this screen to select options for the ACPI Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.



  - **Suspend Mode**
    This item selects the Advanced Configuration and Power Interface (ACPI) state for system suspend.
  - **Repost Video on S3 Resume**
    Set this value to allow video repost support. The default setting is *Yes*.
  - **ACPI Version Features**
    Use this item to set the system to be complaint with the ACPI 2.0 specification.
  - **ACPI APIC support**
    This item allows you to enable or disable the Advanced Configuration and Power Interface (ACPI) support in the Application-Specific Integrated Circuit (APIC). Enabling this item makes the RSDT pointer list include the ACPI APIC table pointer.

- **APM Configuration**
  You can use this screen to select options for the APM Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.



  - **Power Management/APM**
    Set this value to allow Power Management/APM support. The default setting is *Enabled*.

Disabled	Set this value to prevent the chipset power management and APM (Advanced Power Management) features.
Enabled	Set this value to allow the chipset power management and APM (Advanced Power Management) features. This is the default setting.

- **Power Button Mode**
  This option specifies how the externally mounted power button on the front of the computer chassis is used. The default setting is *On/Off*.

On/Off	Pushing the power button turns the computer on or off. This is the default setting. This is the default setting.
Standby	Pushing the power button places the computer in Standby mode.
Suspend	Pushing the power button places the computer in Suspend mode or Full On power mode.

- **Restore on AC Power Loss**
  There are three selections available: *Power Off*, *Power On* and *Last State*. When the setting is *Power Off*, the system goes into off state after an AC power loss; when *Power On*, the system goes on after an AC power loss.When the setting is *Last State*, the system goes into either off or on state, whatever the system state was before the AC power loss.

- **Video Power Down Mode**
  This option specifies the Power State that the video subsystem enters when the BIOS places it in a power saving state after the specified period of display inactivity has expired. The default setting is *Suspend*.

Disabled	This setting prevents the BIOS from initiating any power saving modes concerned with the video display or monitor.
Standby	This option places the monitor into standby mode after the specified period of display inactivity has expired. This means the monitor is not off. The screen will appear blacked out. The standards do not cite specific power ratings because they vary from monitor to monitor.

Suspend	This option places the monitor into suspend mode after the specified period of display inactivity has expired. This means the monitor is not off. The screen will appear blacked out. The standards do not cite specific power ratings because they vary from monitor to monitor, but this setting use less power than Standby mode. This is the default setting.

- **Hard Disk Drive Power Down Mode**
  This option specifies the power conserving state that the hard disk drive enters after the specified period of hard drive inactivity has expired. The default setting is *Suspend*.

Disabled	This setting prevents hard disk drive power down mode.
Standby	This option stops the hard disk drives from spinning during a system standby.
Suspend	This option cuts the power to the hard disk drives during a system suspend. This is the default setting.

- **Standby Time Out**
  This option specifies the length of time the system waits before it enters standby mode. The default setting is *Disabled.*

Disabled	Set this value to prevent the computer system from entering standby mode. This is the default setting.
1 Min	Set this value to allow the computer system to enter standby mode after being inactive for 1 minute.
5 Min	Set this value to allow the computer system to enter standby mode after being inactive for 5 minutes.
10 Min	Set this value to allow the computer system to enter standby mode after being inactive for 10 minutes.

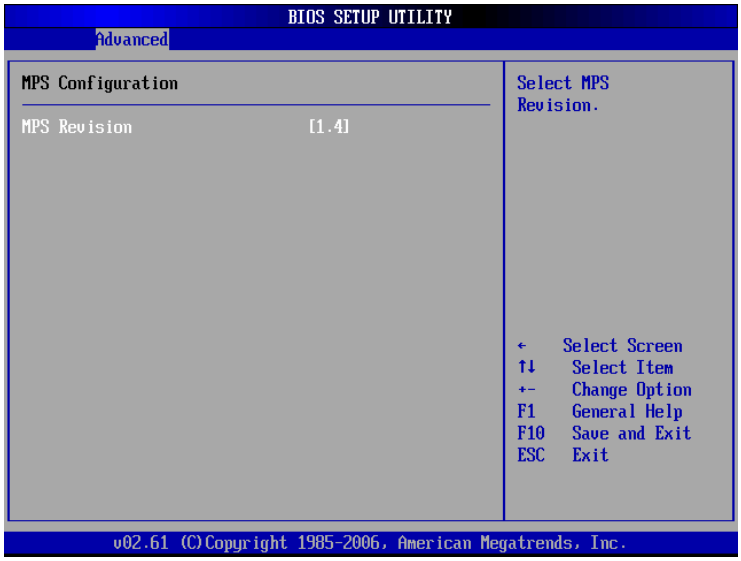
- **Suspend Time Out (Minute)**
  This option specifies the length of time the system waits before it enters suspend mode. The default setting is *Disabled*.

Disabled	This setting prevents the system from entering suspend mode. This is the default setting.
1 Min	Set this value to allow the computer system to enter suspend mode after being inactive for 1 minute.

5 Min	Set this value to allow the computer system to enter suspend mode after being inactive for 5 minutes.
10 Min	Set this value to allow the computer system to enter suspend mode after being inactive for 10 minutes.

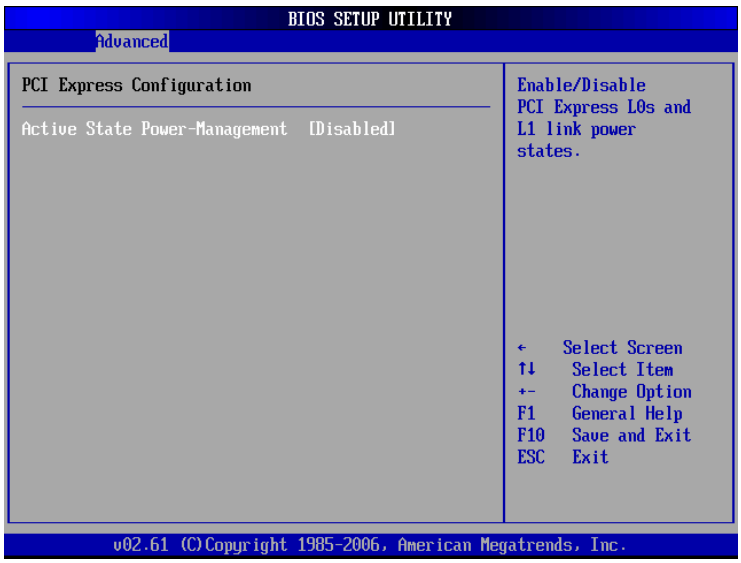
- **Resume On Ring**
  This item enables or disables the function of Resume On Ring that resume the system through incoming calls.
- **Resume On LAN**
  This item enables or disables the function of Resume On LAN that resume the system through the network.
- **Resume On PME#**
  This item enables or disables the function of Resume On PME# (Power Management Event). Enabling this item allows the system to resume from standby mode.
- **Resume On RTC Alarm**
  You can set "Resume On RTC Alarm" item to enabled and key in Data/time to power on system.

- **MPS Configuration**
  This screen shows the MPS (Multi Processor Specification) Configuration, and you can change its value. A description of the selected item appears on the right side of the screen.



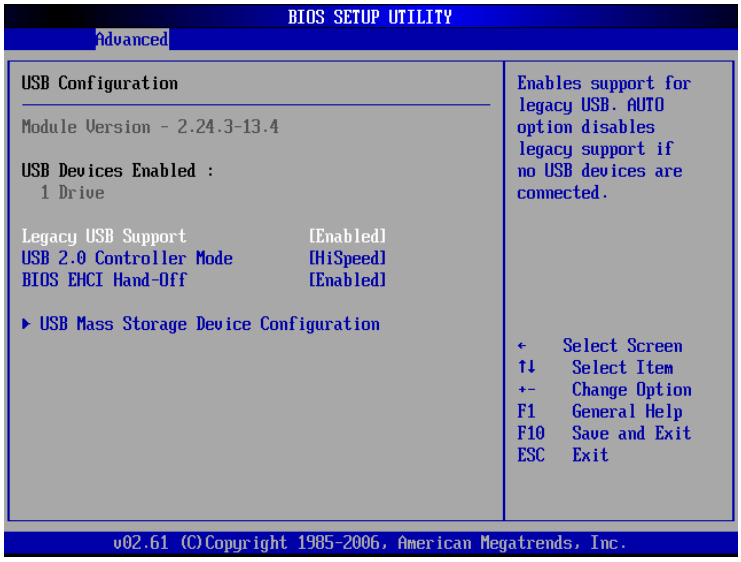
- **MPS Revision**
  Use this item to select MPS (Multi Processor Specification) Revision 1.1 or 1.4. The default setting is *1.4*.

- **PCI Express Configuration**
  This screen shows the PCI Express Configuration, and you can change its value. A description of the selected item appears on the right side of the screen.



- **Active State Power-Management**
  Use this item to enable or disable the function of Active State Power-Management to provide you with lower power consumption. The default setting is *Disabled*.

- **USB Configuration**
  You can use this screen to select options for the USB Configuration, and change the value of the selected option. A description of the selected item appears on the right side of the screen.


BIOS SETUP UTILITY
Advanced
USB Configuration
Module Version - 2.24.3-13.4
USB Devices Enabled :
1 Drive
Legacy USB Support [Enabled]
USB 2.0 Controller Mode [HiSpeed]
BIOS EHCI Hand-Off [Enabled]
▶ USB Mass Storage Device Configuration
Enables support for legacy USB. AUTO option disables legacy support if no USB devices are connected.
← Select Screen
↑↓ Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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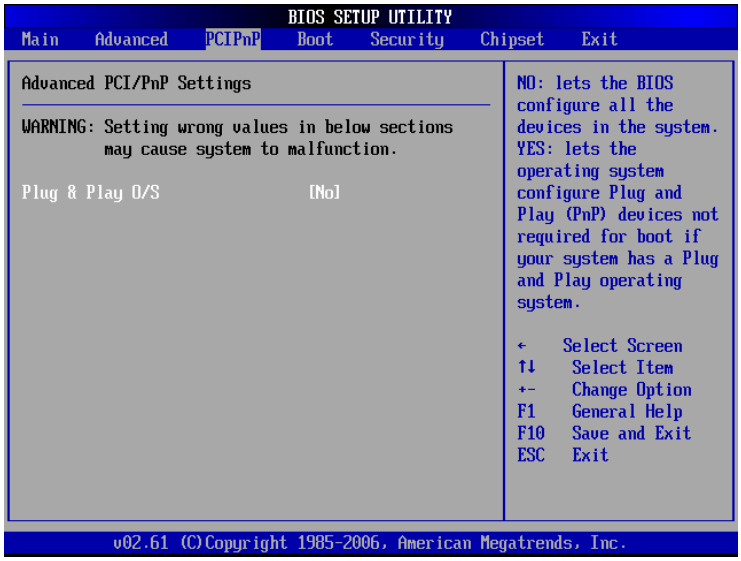
  - **Legacu USB Support**
    Use this item to enable or disable support for USB device on legacy operating system. The default setting is *Enabled*.
  - **USB 2.0 Controller Mode**
    Use this item to configure the USB 2.0 controller. The default setting is *HiSpeed*.
  - **BIOS EHCI Hand-Off**
    Enabling this item provide the support for operating systems without an EHCI hand-off feature. The default setting is *Enabled*.

3.5 PCI PnP Menu

The PCI PnP menu allows users to change the advanced settings for PCI/PnP devices.


BIOS SETUP UTILITY
Main Advanced PCIPnP Boot Security Chipset Exit
Advanced PCI/PnP Settings
WARNING: Setting wrong values in below sections may cause system to malfunction.
Plug & Play O/S [No]
NO: lets the BIOS configure all the devices in the system. YES: lets the operating system configure Plug and Play (PnP) devices not required for boot if your system has a Plug and Play operating system.
← Select Screen
↑↓ Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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- **Plug & Play O/S**
  When the setting is No, Use this item to configure all the devices in the system. When the setting is Yes and if you install a Plug and Play operating system, the operating system configures the Plug and Play devices not required for boot. The default setting is *No*.

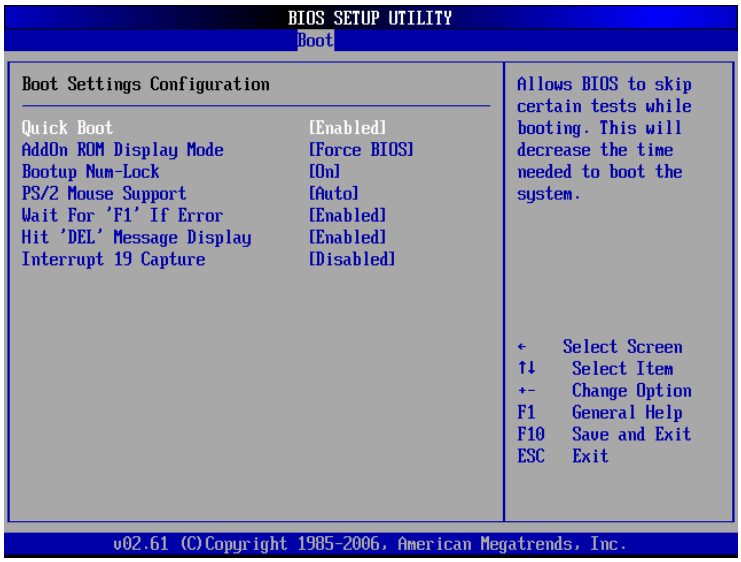
3.6 Boot Menu

The Boot menu allows users to change boot options of the system. You can select any of the items in the left frame of the screen to go to the sub menus:

- Boot Settings Configuration
- Lan Boot Settings Configuration
- Boot Device Priority
- Hard Disk Drives

For items marked with "►", please press <Enter> for more options.

- **Boot Settings Configuration**


BIOS SETUP UTILITY
Boot
Boot Settings Configuration
Quick Boot [Enabled]
AddOn ROM Display Mode [Force BIOS]
Bootup Num-Lock [On]
PS/2 Mouse Support [Auto]
Wait For 'F1' If Error [Enabled]
Hit 'DEL' Message Display [Enabled]
Interrupt 19 Capture [Disabled]
Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the system.
← Select Screen
↑↓ Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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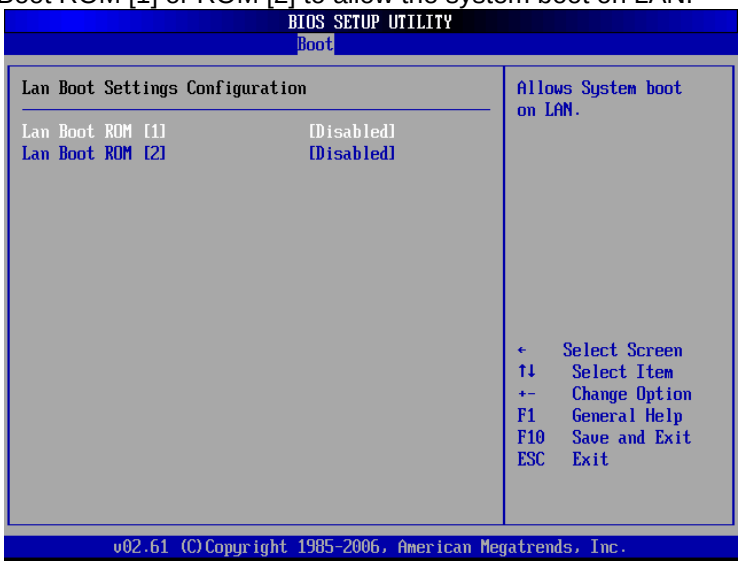
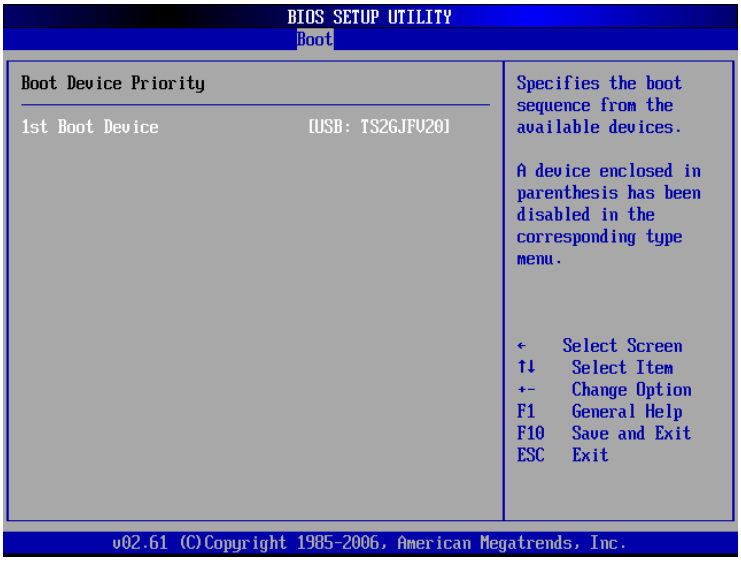
  - **Quick Boot**
    Enabling this item lets the BIOS skip some power on self tests (POST). The default setting is *Enabled*.
  - **AddOn ROM Display Mode**
    This item selects the display mode for option ROM. The default setting is *Force BIOS*.
  - **Boot Num-Lock**
    Use this item to select the power-on state for the NumLock. The default setting is *On*.
  - **Wait For 'F1' Of Error**
    If this item is enabled, the system waits for the F1 key to be pressed when error occurs. The default setting is *Enabled*.
  - **Hit 'DEL' Message Display**
    If this item is enabled, the system displays the message "Press DEL to run Setup" during POST.The default setting is *Enabled*.
  - **Interrupt 19 Capture**
    If this item is enabled, this function makes the option ROMs to trap Interrupt 19. The default setting is *Disabled*.

- **Lan Boot Settings Configuration**
  The Lan Boot Settings Configuration can enable or disable Lan Boot ROM [1] or ROM [2] to allow the system boot on LAN.



- **Boot Device Priority**
  The Boot Device Priority screen specifies the order in which the system checks for the device to boot from the available devices.


BIOS SETUP UTILITY
Boot
Boot Device Priority
1st Boot Device [USB: TS2GJFV20]
Specifies the boot sequence from the available devices.
A device enclosed in parenthesis has been disabled in the corresponding type menu.
← Select Screen
↑↓ Select Item
+- Change Option
F1 General Help
F10 Save and Exit
ESC Exit
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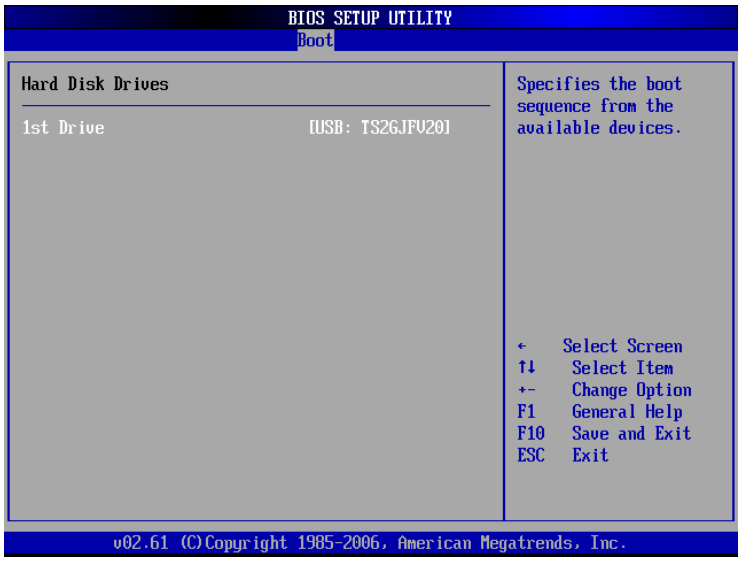
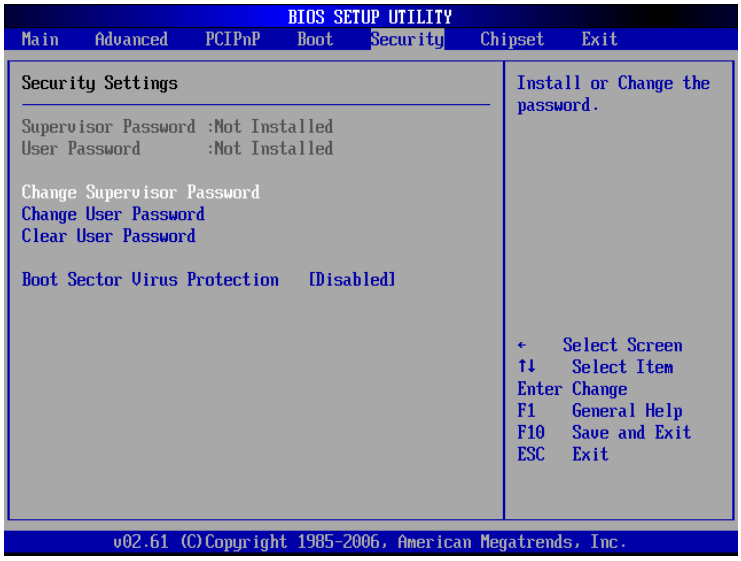
- **Hard Disk Drives**
  Use this screen to view the hard disk drives in the system.



3.7 Security Menu

The Security menu allows users to change the security settings for the system.



- **Supervisor Password**
  This item indicates whether a supervisor password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.

- **User Password**
  This item indicates whether a user password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.

- **Change Supervisor Password**
  Select this option and press <Enter> to access the sub menu. You can use the sub menu to change the supervisor password.

- **Change User Password**
  Select this option and press <Enter> to access the sub menu. You can use the sub menu to change the user password.

- **Clear User Password**
  Select this option and press <Enter> to access the sub menu. You can use the sub menu to clear the user password.

- **Boot Sector Virus Protection**
  This option is near the bottom of the Security Setup screen. The default setting is *Disabled*

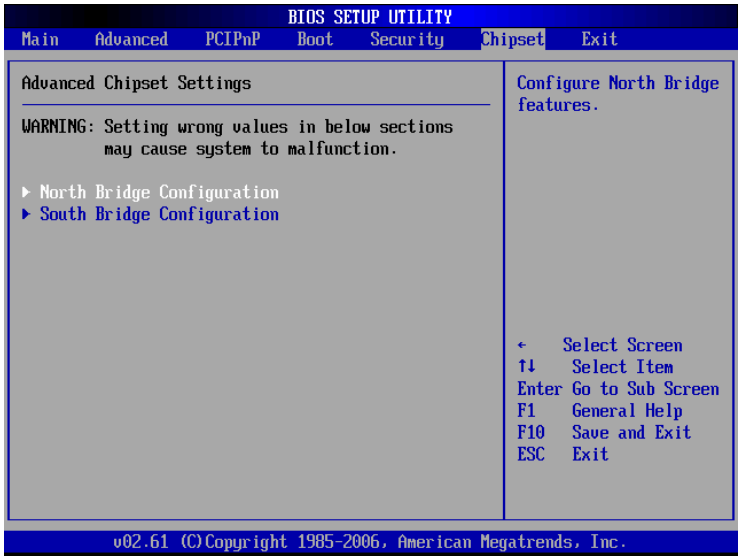
Disabled	Set this value to prevent the Boot Sector Virus Protection. This is the default setting.
Enabled	Select Enabled to enable boot sector protection. It displays a warning when any program (or virus) issues a Disk Format command or attempts to write to the boot sector of the hard disk drive. If enabled, the following appears when a write is attempted to the boot sector. You may have to type N several times to prevent the boot sector write. Boot Sector Write! Possible VIRUS: Continue (Y/N)? _ The following appears after any attempt to format any cylinder, head, or sector of any hard disk drive via the BIOS INT 13 Hard disk drive Service: Format!!! Possible VIRUS: Continue (Y/N)?

3.8 Chipset Menu

The Chipset menu allows users to change the advanced chipset settings. You can select any of the items in the left frame of the screen to go to the sub menus:

- North Bridge Configuration
- South Bridge Configuration

For items marked with "►", please press <Enter> for more options.


BIOS SETUP UTILITY
Main Advanced PCIPnP Boot Security Chipset Exit
Advanced Chipset Settings
WARNING: Setting wrong values in below sections may cause system to malfunction.
North Bridge Configuration
South Bridge Configuration
Configure North Bridge features.
← Select Screen
↑↓ Select Item
Enter Go to Sub Screen
F1 General Help
F10 Save and Exit
ESC Exit
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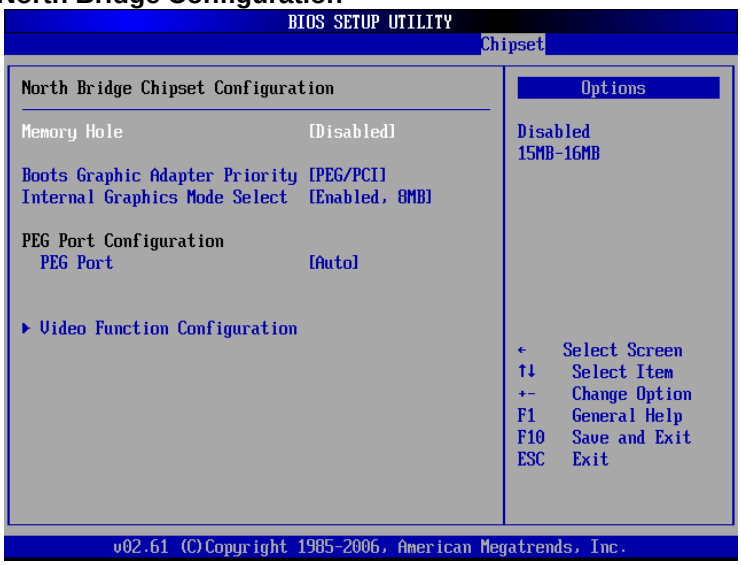
- **North Bridge Configuration**



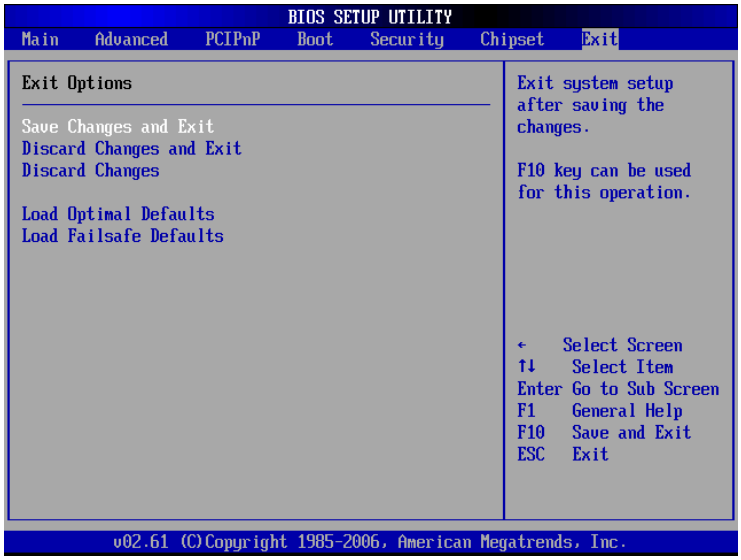
  - **Boot Graphic Adapter Priority**
    This item allows you to select the graphics controller as the primary boot device.
  - **Internal Graphics Mode Select**
    This item allows you to select the amout of system memory used by the internal graphics device.
  - **PEG Port**
    This item allows you to disable or enable PEG port control.

- **South Bridge Configuration**

  - **USB Function/USB 2.0 Controller/HAD Controller**
    These items, respectively, allow you to enable or disable USB/USB 2.0/HAD function/controller.

3.9 Exit Menu

The Exit menu allows users to load your system configuration with optimal or failsafe default values.


BIOS SETUP UTILITY
Main Advanced PCIPnP Boot Security Chipset Exit
Exit Options
Save Changes and Exit
Discard Changes and Exit
Discard Changes
Load Optimal Defaults
Load Failsafe Defaults
Exit system setup after saving the changes.
F10 key can be used for this operation.
← Select Screen
↑↓ Select Item
Enter Go to Sub Screen
F1 General Help
F10 Save and Exit
ESC Exit
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- **Exit Saving Changes**
  When you have completed the system configuration changes, select this option to leave Setup and reboot the computer so the new system configuration parameters can take effect. Select Exit Saving Changes from the Exit menu and press <Enter>. Select Ok to save changes and exit.

- **Exit Discarding Changes**
  Select this option to quit Setup without making any permanent changes to the system configuration. Select Exit Discarding Changes from the Exit menu and press <Enter>. Select Ok to discard changes and exit.

- **Load Optimal Defaults**
  It automatically sets all Setup options to a complete set of default settings when you Select this option. The Optimal settings are designed for maximum system performance, but may not work best for all computer applications. In particular, do not use the Optimal Setup options if your computer is experiencing system configuration problems.

Select Load Optimal Defaults from the Exit menu and press <Enter>.

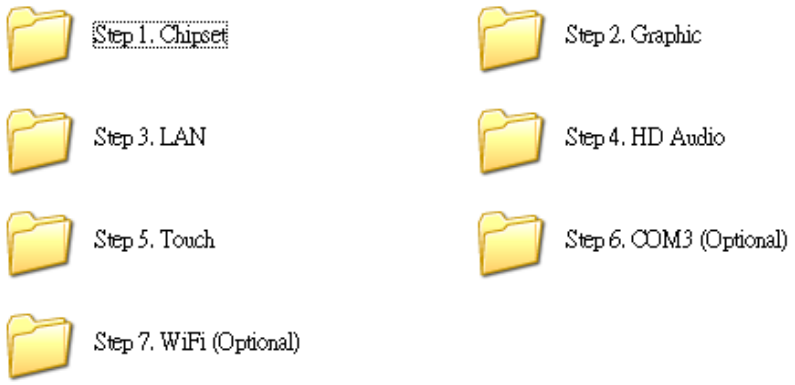
- **Load Fail-Safe Defaults**
  It automatically sets all Setup options to a complete set of default settings when you Select this option. The Fail-Safe settings are designed for maximum system stability, but not maximum performance. Select the Fail-Safe Setup options if your computer is experiencing system configuration problems. Select Load Fail-Safe Defaults from the Exit menu and press <Enter>. Select Ok to load Fail-Safe defaults.

CHAPTER 4
DRIVER INSTALLATION

4.1 System

IFO2175-850-FL supports Windows XP/ Windows Vista to facilitate the installation of system driver, please carefully read the instructions in this chapter before start installing.

1. Insert Driver CD in the disk, and select the \IFO2175-850-FL\Driver\..



2. Please follow folder Step 1 to Step 7 for IFO2175-850-FL driver installation.

4.2 Touch Screen

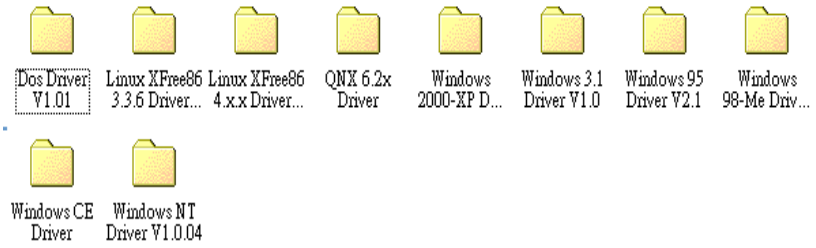
4.2.1 Specification

Touch Screen	For 5-wire analog resistive type
Touch Screen Controller	PenMount 6000 microcontroller
Communications	USB Full-speed, 12Mbps
Baud Rate	19200/ 9600
Resolution	1024 x 1024
Power Input	5V
Power Consumption	Standby Mode : 13.4mA; Active Mode: 24.6mA (VCC=5V, Top sheet Panel Resistance: 274 ohm, Bottom sheet Panel Resistance: 770 ohm)
Board Size	60 x 26 mm
Portrait	Support 90o, 180o and 270o screen rotation

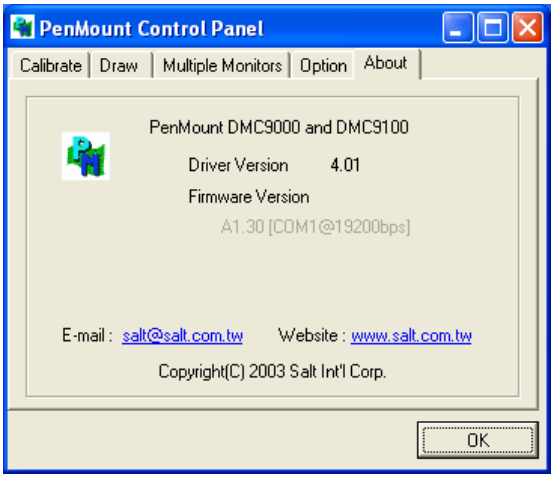
4.2.2 Driver Installation- Windows XP/CE.NET/XP-Embedded

The **IFO2175-850-FL Series** provides a driver of the touch screen that users can install it under operating system Windows XP/ Windows Vista. To facilitate this touch screen driver installation, users should read the instructions in this chapter carefully before start the installation.

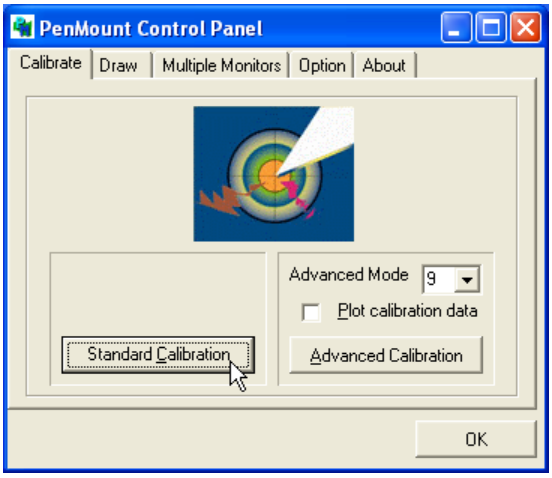
1. Insert Driver CD and select the D:\IFO2175-850-FL\Driver\Step6 - Touch\Driver\Win2000-XP\setup.exe



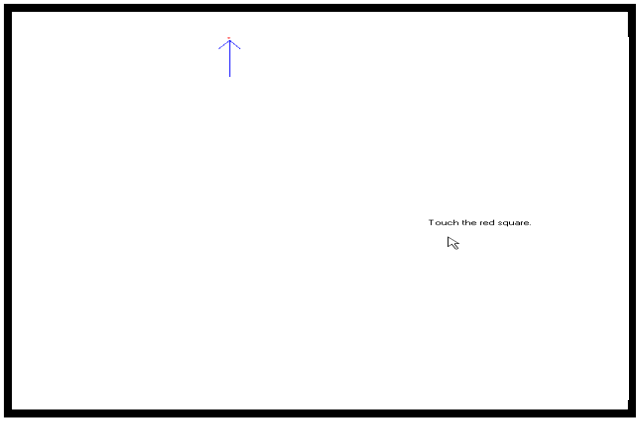
2. Follow the installing procedure and press OK.
3. Click Start menu and select "PenMount Utilities", and then a "PenMount Control Panel" pops out.



4. Click the "Standard Calibration" button.



5. Calibration:
   To adjust the display with touch panel, click "Calibration" and follow the calibrate point to do calibration; there are five points on screen for calibration.



6. Press OK.